

REMARKS

A petition requesting a two (2) month extension of the time to respond to the Office Action has been submitted herewith, whereby, in accordance with the Petition of Extension of Time and payment of fee thereof, the period for response has been extended to January 18, 2004.

Claim 5 has been cancelled. Claims 7, 10 – 12, 15, and 17 have been amended. Claims 1 – 4 and 6 – 17 remain pending in the application.

In the Office Action, the disclosure is objected to because of informalities in the presented equations. Also, in the Office Action, claims 3, 7, 12, and 15 are objected to because of informalities. Additionally, in the Office Action, claims 1 - 17 are rejected under 35 U.S.C. §112, first paragraph, as failing to comply with the enablement requirement. Moreover, in the Office Action, claims 5, 11 – 15, and 17 are rejected under 35 U.S.C. §112, second paragraph, as being indefinite.

Applicant submits that the cancellation of claim 5 and the amendment of claims 7, 10 – 12, 15, and 17 have remedied the objections to claims 3, 7, 12, and 15 because of informalities and the rejection of claims 1 - 17 under 35 U.S.C. §112, first paragraph. With respect to those objections to claims 3, 7, 12, and 15 because of informalities and rejections of claims 1 - 17 under 35 U.S.C. §112, first paragraph, on the grounds that :

$$E = \sum_{\#datasets} \left[\sum_{Curves C} (J_{net}(u))^2 \right]$$

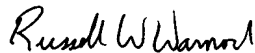
is well-known to have a unit of A/m^4 , Applicant submits that the equation can have values in units of Ω/m^4 as well and Applicant also submits that the summations in the second and third order equations for performing regularization are also proper.

With regard to claims 1 and 17, Applicant submits that the specification does, in fact, provide support for the regularization term.

With regard to claim 3, 7, 10, 12, 15, Applicant has amended these claims in accordance with the suggestions in the Office Action.

Accordingly, it is submitted that the present application is in condition for allowance and early action toward that end is respectfully requested.

Respectfully submitted,



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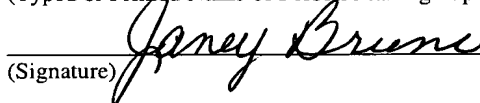
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